

## 194.—THE WORLD'S MARKET FOR KLIP-FISH, ROE, AND HERRING.\*

By PAUL GEORGE PAULSEN.

THE KLIP-FISH MARKET.—The quantity of salt and dried fish exported from France in 1881 was as follows:

	Kilograms.
To Spain .....	1, 200, 000
To Italy .....	1, 899, 000
To Algiers .....	878, 000
To Greece .....	909, 000
To Turkey and Egypt .....	254, 000
To the West Indies .....	494, 000
To Réunion .....	110, 000
To other countries .....	298, 000

Making a total of 6,042,000 kilograms [about 13,322,600 pounds], against 4,300,000 during the preceding five years.

THE ROE MARKET.—In 1881 France imported—

	Tons.
From Norway .....	40, 600
From the Netherlands .....	1, 300
From Great Britain and Ireland .....	200
From the United States .....	2, 200
From British North America .....	1, 000
From St. Pierre, &c .....	2, 400
From other countries .....	100
In all .....	47, 800

against 60,200 during the period of 1876-'80.

THE HERRING MARKET.—In 1882 there were imported into Danzig, Prussia—

	Tons.
From Norway and Sweden .....	10, 800
From the Netherlands and France .....	900
From Scotland .....	150, 200
From the Prussian fisheries .....	7, 400
In all .....	169, 300

On hand at Danzig at the end of the year, 72,900 tons.

\* *Verdensmarkedet*. From the *Norsk Fiskeritidende*, Vol. III, Bergen, January, 1884. Translated from the Danish by HERMAN JACOBSON.

The average annual importation into Memel, Königsberg, Danzig, Stettin, and Hamburg, during the period 1879 to 1882, was as follows:

Country.	Tons.	Per cent.
From Norway.....	237,000	25.4
From Sweden.....	12,800	1.4
From Denmark.....	4,500	0.5
From the Netherlands.....	25,800	2.7
From France.....	12,800	1.4
From Scotland.....	630,700	68.2
From the Prussian fisheries.....	8,500	0.4
From America.....	100	.....
Total.....	933,200	.....

Of this quantity there were imported into—

City.	Tons.	Per cent.
Memel.....	24,300	2.6
Königsberg.....	197,200	21.1
Danzig.....	146,300	15.7
Stettin.....	382,200	41.0
Hamburg.....	183,200	19.6
Total.....	933,200	.....

In 1881 France exported the following quantity of dried, salt, and smoked herring:

	Tons.
To Great Britain and Ireland.....	19,500
To Russia.....	1,200
To Germany.....	16,300
To Belgium.....	500
To Algiers.....	600
To other countries.....	1,200
Total.....	29,300

**195.—ON THE CONDITIONS UNDER WHICH TROUT EXIST IN THE GERMAN WATERS.\*†**

**By PROFESSOR KUNKEL.**

Investigations of this matter revealed the remarkable fact that in Western Franconia, in portions of the country lying in the closest proximity, there is an essential difference in the occurrence of trout in the

\* From "Vortrag des Professors Dr. Kunkel in Würzburg über die Existenzbedingungen der Forellen in unsern einheimischen Gewässern." From Circular No. 4, 1884, of the German Fishery Association, Berlin, June 30, 1884. Translated by HERMAN JACOBSON.

† Read at the monthly meeting of April 7, 1884, which was, like former meetings, numerously attended by all classes of the population from far and near. There was an address by Professor Kunkel, of which this is an abstract, a general discussion of various matters relating to the fisheries, and the distribution of fish and fishing apparatus.